

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):



BLACK BORDERS

- TEXT CUT OFF AT TOP, BOTTOM OR SIDES



FADED TEXT

- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



[Handwritten signature]

ATTY. DKT. NO.: UCF-237DIV

SERIAL NO.: 10/623,226

APPLICANT: BRUCE CHAI

FOR: LUTETIUM YTTRIUM ORTHOSILICATE SINGLE CRYSTAL SCINTILLATOR

Filed: 07/18/2003

Commissioner of Patents and Trademarks

Patent and Trademark Office

P O Box 1450

Alexandria, VA 22313-1450

FILED: 7/16, 2004

Honorable Commissioner:

I submit the following:

1. Petition to Consider the Information Disclosure Statement under 37 C.F.R. § 1.97(e)
2. Information Disclosure Statement under 37 C.F.R. § 1.97(e)
3. A check in the amount of \$180.00 is attached under 37 CFR 1.17(p).
4. Return Post card

Respectfully submitted,

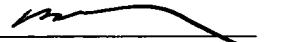

Brian S. Steinberger
Law Offices of Brian S. Steinberger
Registered Patent Attorneys
PTO Registration No. 36,423
101 Brevard Avenue
Cocoa, Florida
(321) 633-5080/(321) 633-9322 Fax
Customer No.: 23717

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being sent by First Class Mail on the date shown below to the: Commissioner of Patents and Trademarks, P O Box 1450, Alexandria, VA 22313-1450..

Date 7/16, 2004

BRIAN S. STEINBERGER
(Name of Person Mailing Paper)


(Signature of Person Mailing Paper)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

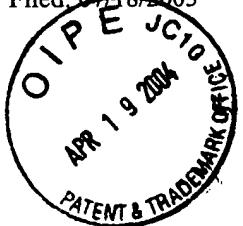
ATTY. DKT. NO.: UCF-237DIV

SERIAL NO.: 10/623,226

APPLICANT: BRUCE CHAI

FOR: LUTETIUM YTTRIUM ORTHOSILICATE SINGLE CRYSTAL SCINTILLATOR

Filed: 07/18/2003



INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of Patents
and Trademarks
P O Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §§ 1.97 and 1.98, record is being made below in a form PTO-1449 of documents which the Patent Office may wish to consider in connection with examination of the above-identified patent application. It is respectfully requested that the cited documents be carefully considered by the Examiner and made of record in this case. As provided in § 1.97(g), no representation is made or intended that a thorough art search was made. As provided in 37 C.F.R. § 1.97(h), this Supplemental Information Disclosure Statement does not constitute an admission of any kind, and specifically is not an admission that the documents listed on the attached PCT-1449 are, or are considered to be, material to the patentability of the above-identified patent application, as defined in 37 C.F.R. § 1.56(b).

Copies of the cited references were previously submitted to the USPTO in the parent application No.: 09/106,560 filed: 02/17/2000 and placed in the file. Applicants claim priority to said application under 35 U. S. C. §120. Accordingly, copies of those documents are not provided with this Statement pursuant to 37 CFR § 1.98(d).

A certification as specified in 37 C.F.R. §1.97(e) is submitted herewith.

I hereby certify that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual

04/20/2004 YPOLITE1 00000097 10623226

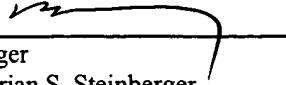
01 FC:1806

180.00 0P

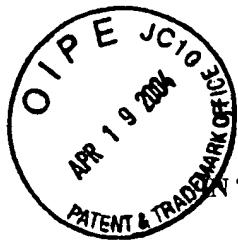
designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.

It is respectfully requested that the cited documents be carefully considered by the Examiner and made of record in the case.

Respectfully submitted,


Brian S. Steinberger
Law Offices of Brian S. Steinberger
Registered Patent Attorneys
PTO Registration No. 36,423
101 Brevard Avenue
Cocoa, Florida
(321) 633-5080/(321) 633-9322 Fax
Customer No.: 23717

Date: 7/16/04



THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY. DKT. NO.: UCF-237DIV

SERIAL NO.: 10/623,226

APPLICANT: BRUCE CHAI

FOR: LUTETIUM YTTRIUM ORTHOSILICATE SINGLE CRYSTAL SCINTILLATOR

Filed: 07/18/2003

Commissioner of Patents and Trademarks

Patent and Trademark Office

P O Box 1450

Alexandria, VA 22313-1450

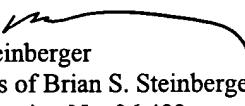
Honorable Commissioner:

PETITION TO CONSIDER INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant respectfully request that the Information Disclosure Statement, cited documents and Certification as specified in 37 C. F. R. § 1.97(e) be carefully considered by the Examiner and made of record in the above-identified patent application.

Respectfully submitted,


Brian S. Steinberger
Law Offices of Brian S. Steinberger, P.A.
PTO Registration No. 36,423
101 Brevard Avenue
Cocoa, FL 32922
(321) 633-5080
Customer Number 23717

Date: 4/16/04

Attorney Docket No.: UCF-237DIV

Serial No.: 09/506,160

Filed: 05/18/2001

Examiner: HANNAHER

Group: 2878

For: LUTETIUM YTTRIUM ORTHOSILICATE SINGLE CRYSTAL SCINTILLATOR DETECTOR

SUPPLEMENTAL FORM PTO-1449

US DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Page 1 of 1

LIST OF ART CITED BY APPLICANT

U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
AA	6,323,489	11/27/2001	MCCLELLAN	250	361

FOREIGN PATENT DOCUMENTS

OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

US DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

APPLICANT: CHAI, et al.
FOR: LUTETIUM YTTRIUM ORTHOSILICATE SINGLE CRYSTAL SCINTILLATOR DETECTOR

LIST OF ART CITED BY APPLICANT

10539/50 U.S. PRO
09/17/08
02/17/08

U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
CH	AA 4,664,744	5/12/87	LEGAL et al.	156	616R
CH	AB 4,928,017	5/22/90	KEMMLER-SACK et al.	250	483.1
CH	AC 4,958,080	9/18/90	MELCHER	250	483.1
CH	AD 5,003,181	3/26/91	MORLOTTI	250	484.1
CH	AE 5,025,151	6/18/91	MELCHER	250	269
CH	AF 5,164,041	11/17/92	BERKSTRESSER et al.	156	617
CH	AG 5,660,627	8/26/97	MANENTE et al.	117	13
AI	5,610,967	3/11/97	MOORMAN	378	154
AI	5,664,612	7/1/97	MOORMAN	378	98.2
AJ	5,651,047	7/22/97	MOORMAN	378	988
AK	5,729,584	3/17/98	MOORMAN	378	146
AL	5,751,785	5/12/98	MOORMAN	378	146
AM	5,835,561	11/10/98	MOORMAN	378	98
AN	5,859,893	1/12/99	MOORMAN	378	154

FOREIGN PATENT DOCUMENTS

NONE

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CH IEEE Transactions on Nuclear Science, Vol. 36, No. 1, February 1989, Ishibashi, "CERIUM DOPED GSO SCINTILLATOR AND ITS APPLICATION TO POSITION SENSITIVE DETECTORS" pp. 170-172 et al.

CH IEEE Transactions on Nuclear Science, Vol. 40, No. 4, August 1993, Daghigian, "EVALUATION OF CERIUM DOPED LUTETIUM OXYORTHOSILICATE SCINTILLATION CRYSTAL FOR PET" pp. 1045-1047 et al.

CH IEEE Transactions on Nuclear Science, Vol. 43, No. 3, June 1996, Novotny, "A PLASTIC-BaF₂ PHOSWICH TELESCOPE FOR CHARGED/NEUTRAL PARTICLE AND PHOTON DETECTION" pp. 1260-1264 et al.

CONSTANTINE HANNAHER

OCT 15 2001



Notice of References Cited

Application No. _____

09/506,160
Examiner _____

Applicant(s) _____

CHAI ET AL.
Group Art Unit _____

Page 1 of 1

Constantine Hannerer 2979

U.S. PATENT DOCUMENTS

*	Country Code/Document Number and Code DOCUMENT NO.	DATE <small>MM-YYYY</small>	NAME	CLASS	SUBCLASS
A					
B	US-004549083-A	10-1985	Ozawa	250	456.1
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

FOREIGN PATENT DOCUMENTS

*	Country Code/Document Number and Code DOCUMENT NO.	DATE <small>MM-YYYY</small>	COUNTRY	NAME	CLASS	SUBCLASS
N						
O	GB-001336318-A	11-1973	(GB) United Kingdom	(72) Watanabe et al.	--	--
P	DE-002234968-A	1-1973	(DE) West Germany	(72) Watanabe et al.	--	--
Q						
R						
S						
T						

NON-PATENT DOCUMENTS

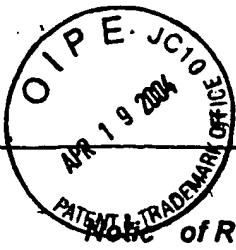
*	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U		
V		
W		
X		

* A copy of this reference is not being furnished with this Office action.
(See Manual of Patent Examining Procedure, Section 707.05(a).)

U.S. Patent and Trademark Office
PTO-902 (Rev. 9-80) as of foreign.

Part of Paper N 3

U.S. GPO: 1998-454-457/97506



Notice of References Cited	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09/508,160	CHAI ET AL.
	Examiner	Art Unit
	Constantine Hannaher	2878
		Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-5,859,893-A	01-1999	Moorman et al.	378/154
*	B US-5,835,561-A	11-1998	Moorman et al.	378/98
*	C US-5,751,785-A	05-1998	Moorman et al.	378/146
*	D US-5,729,584-A	03-1998	Moorman et al.	378/146
*	E US-5,651,047-A	07-1997	Moorman et al.	378/98.8
*	F US-5,644,612-A	07-1997	Moorman et al.	378/98.2
*	G US-5,610,967-A	03-1997	Moorman et al.	378/154
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N					
O					
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages
U	
V	
W	
X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



Notice of References Cited

Application/Control No.
10/623,226

Applicant(s)/Patent Under
Reexamination
CHAI ET AL.

Examiner
Shun Lee

Art Unit
2878

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,164,041 A	11-1992	Berkstresser et al.	117/19
	B	US-5,500,147 A	03-1996	Fitzpatrick, Brian J.	252/301.6S
	C	US-5,690,731 A	11-1997	Kurata et al.	117/13
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Melcher et al. Czochralski growth of rare earth oxyorthosilicate single crystals. J. of Crystal Growth, Vol. 128 (1993), pp. 1001-1005.
	V	Loutts et al. Czochralski growth and characterization of (Lu _{1-x} Gd _x) ₂ SiO ₅ single crystals for scintillators. J. of Crystal Growth, Vol. 174 (1997), pp. 331-336.
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.